

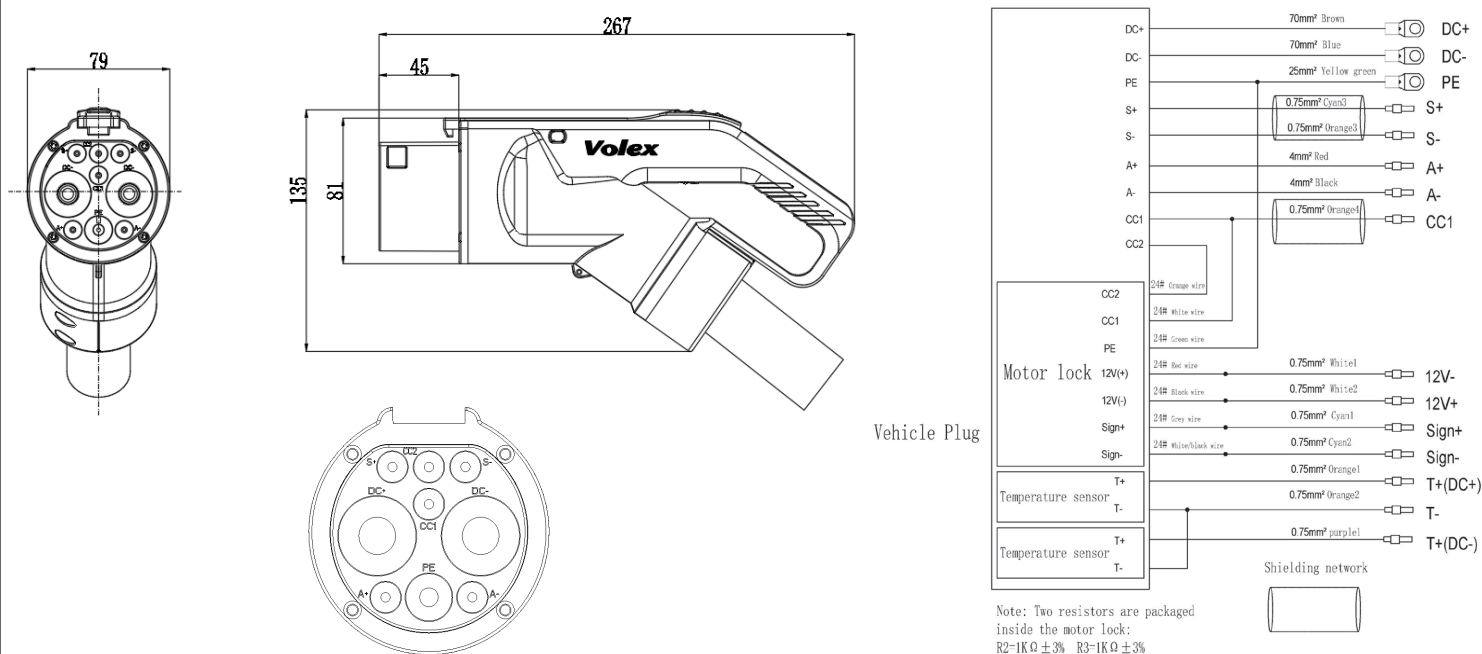
# GB/T 250A

## DC Charging Cable



| PRODUCT DEFINITION  |   |
|---|---|
| Charging Standard   | GB/T  |
| Standards / Regulations                                     | GB/T 20234.1-2015, GB/T 20234.3-2015                          |
| Approval  | CQC   |
| DIMENSIONS: VEHICLE CONNECTOR                               |   |
| Width   | 79 mm   |
| Height  | 135 mm  |
| Depth   | 267 mm  |
| Cable Length  | On Request  |
| AMBIENT CONDITIONS  |   |
| Ambient Temperature (Operation)                             | -30°C to +50°C  |
| Ambient Temperature (Storage / Transport)                   | -40°C to +80°C  |
| Max. Altitude   | 5,000 m (above sea level)                                     |
| Degree of Protection (Unmated)                              | IP67  |
| Degree of Protection (Mated)                                | IP55  |
| Degree of Protection (Protective Cap)                       | IP55  |
| ELECTRICAL PROPERTIES                                       |   |
| Number of Phases  | DC  |
| Rated Voltage (Power Contacts)                              | 1,000V DC   |
| Rated Current (Power Contacts)                              | 250A  |
| Maximum Charging Power                                      | 250 kW  |
| Number of Power Contacts                                    | 3 (DC+, DC-, PE)  |
| Rated Voltage (Signal Contacts)                             | 30V DC  |
| Rated Current (Signal Contacts)                             | 2A  |
| Number of Signal Contacts                                   | 2 (CC1, CC2)  |
| Rated voltage (Low Voltage Auxiliary Power Supply Contacts) | 30V DC  |
| Rated current (Low Voltage Auxiliary Power Supply Contacts) | 20A   |
| Number of Low voltage (Auxiliary Power Supply Contacts)     | 2 (A+, A-)  |
| Note on the Connection Method                               | Crimp Termination (cannot be disconnected)                    |
| Resistor Coding (Between PE and CC1, CC2)                   | 1000Ω (CC1 and PE) (Lever Not Operated)<br>1000Ω (CC2 and PE) |
| Temperature Sensor  | 2 x Pt 1000   |
| Temperature Sensor Application Range                        | -50°C to +130°C   |
| Sensor Shutdown Temperature                                 | Pt 1000 temperature up to 90°C                                |

# GB 250A DC CHARGING CABLE MECHANICAL DRAWING



## MECHANICAL PROPERTIES

|                 |          |
|-----------------|----------|
| Mating Cycles   | > 10,000 |
| Insertion Force | < 140 N  |
| Withdrawal      | < 140 N  |

| MATERIAL                       |                     | DESIGN                             |            |
|--------------------------------|---------------------|------------------------------------|------------|
| Material Housing / Handle Area | Plastic             | Housing / Handle Area Colour       | Black      |
| Material Mating Face           | Plastic             | Mating Face / Locking Lever Colour | Black      |
| Material Protective Cap        | Silicone rubber     | Protective Cap Colour              | Black      |
| Flammability Rating            | V0                  | Housing with Customer Logo         | On Request |
| Material Contacts              | Red copper Cu-Alloy |                                    |            |
| Plating                        | Silver Plating      |                                    |            |

| CABLE    |   |            |
|----------|---|------------|
| AMPERAGE | CABLE STRUCTURE   | CABLE O.D. |
| 250A     | 2 x 70mm <sup>2</sup> + 1 x 25mm <sup>2</sup> + 2 x 4mm <sup>2</sup> + 2 x (2 x 0.75)(P2)mm <sup>2</sup> + (8 x 0.75) mm <sup>2</sup> | 35.2 mm    |

| CABLE RESISTANCE AT 20°C |                   |                  |                     |
|--------------------------|-------------------|------------------|---------------------|
| 70mm <sup>2</sup>        | 25mm <sup>2</sup> | 4mm <sup>2</sup> | 0.75mm <sup>2</sup> |
| ≤ 0.272 Ω/km             | ≤ 0.780 Ω/km      | ≤ 4.95 Ω/km      | ≤ 26 Ω/km           |

|                       |                                    |
|-----------------------|------------------------------------|
| Cable Standard        | GB-T 33594-2017                    |
| Type of Conductor     | Straight (or more type on request) |
| Outer Sheath Material | TPE Compound                       |
| Outer Sheath Colour   | On Request                         |

| ENVIRONMENTAL PRODUCT COMPLIANCE |           |
|----------------------------------|-----------|
| REACH SVHC                       | Compliant |
| China RoHS                       | Compliant |
| EU RoHS                          | Compliant |

Contact us at [sales@volex.com](mailto:sales@volex.com)  
for assistance in finding the right solution for your needs.